

WALTER INFO 5/2014

HELITRONIC MINI AUTOMATION

High volume production of tools
with diameters from 1 mm up to 16 mm

NEW
HELITRONIC MINI
AUTOMATION for
volume production



Key parameters

The 5-axis CNC HELITRONIC MINI AUTOMATION tool grinding machine is the first choice in the HELITRONIC family when it comes to the highest productivity and quality expectations in volume production. For rotationally symmetrical tools and production components with maximum flexibility.

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- Machine base in solid grey cast iron, gantry type construction
- Double-ended grinding spindle, NCT cone with flat contact surface
- Up to three grinding wheels for each spindle end
- Robot loader for max. 1,500 tools (pallets not included)
- Automatic clamping cylinder
- Software: HELITRONIC TOOL STUDIO and WWM (P1, P2, P3)
- Hollow shaft workpiece carrier with flat contact surface (without ISO 50)

Technical data

Linear axes X, Y, Z with ball screw

Rotational axis A with torque motor

Rotational axis C with worm drive

Continuously variable grinding spindle drive

Max. peak power	9 kW
Speed adjustable	0–10,500 rpm
Grinding spindle diameter	70 mm
Max. grinding wheel diameter	150 mm
Torque motor	1,000 rpm
Tape filter unit	350 l

Tool data ¹⁾

Diameter for regrinding	Starting at 3 mm
Diameter for production	1–16 mm
Diameter during complete processing	≤ 100 mm
Max. complete processing tool length ²⁾	185 mm
Max. peripheral grinding tool length ²⁾	255 mm
Max. end face grinding tool length ²⁾	185 mm

¹⁾ The maximum tool dimensions depend on the type of tool and its geometry, as well as the type of machining.

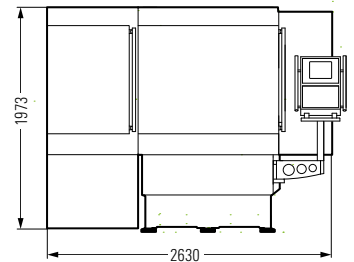
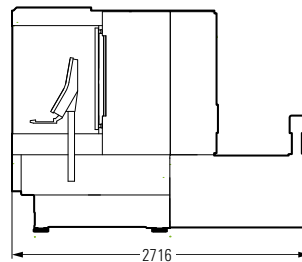
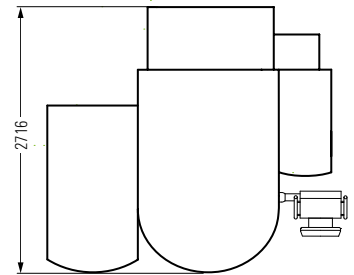
²⁾ From the theoretical taper diameter of the workpiece holder.

Application

Especially developed for the high volume production of milling cutters, drills, stepped drill bits, multi-step tools, wood-machining tools, profile tools, etc. with a diameter of 1 mm up to 16 mm, made out of carbide, HSS, ceramic, cermet or CBN.

Options

- Clamping unit for automatic clamping devices W15/W20
- Manual and automatic support steady
- Manual and automatic tailstock
- Extension for robot loader for four additional pallets for up to 2,000 tools (= total of 3,500 tools)
- Pallets, fire extinguishing system, vapour separator, silencer, etc.



HELITRONIC MINI AUTOMATION (Dimensions in mm)

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